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 IBM Technical Disclosure Bulletins

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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
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<u>L36</u>	345/967	322	<u>L36</u>
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<u>L28</u>	235.clas.	90841	<u>L28</u>

<u>L27</u>	705.clas.	28812	<u>L27</u>
<u>L26</u>	705/14	3663	<u>L26</u>
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<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L22</u>	5329289.pn.	1	<u>L22</u>
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<u>L20</u>	5941618.pn.	1	<u>L20</u>
<u>L19</u>	5941618.pn.	1	<u>L19</u>
<u>L18</u>	5971268.pn.	1	<u>L18</u>
<u>L17</u>	5973664.pn.	1	<u>L17</u>
<u>L16</u>	5986634.pn.	1	<u>L16</u>
<u>L15</u>	6441828.pn.	1	<u>L15</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L14</u>	L13 and (handicapp\$ or impaired or disabled) near (person or individual or user)	3	<u>L14</u>
<u>L13</u>	l10 and (adjustable or rotatable or changable or tilt\$ or angl\$ or vertical or horizontal) near (screen or monitor or terminal)	160	<u>L13</u>
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<u>L4</u>	L3 and icon	494	<u>L4</u>
<u>L3</u>	L2 and (tilt or angle or horizontal or vertical)	3529	<u>L3</u>
<u>L2</u>	L1 and (adjustable or changable)	4665	<u>L2</u>
<u>L1</u>	computer near (screen or monitor)	47004	<u>L1</u>

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1 of 1

File: USPT

Jul 12, 1994

LogoutUS-PAT-NO: 5329289

DOCUMENT-IDENTIFIER: US 5329289 A

TITLE: Data processor with rotatable display

DATE-ISSUED: July 12, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sakamoto; Kohichiro	Sakai			JP
Murashima; Yoshiyuki	Yamatotakada			JP
Nishida; Hiroshi	Tenri			JP
Shibata; Yukihiro	Souraku			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Sharp Kabushiki Kaisha	Osaka			JP	03

APPL-NO: 07/ 874980 [PALM]

DATE FILED: April 22, 1992

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	3-097458	April 26, 1991
JP	3-097466	April 26, 1991

INT-CL: [05] G09G 5/00, G09G 5/32, G09G 5/38

US-CL-ISSUED: 345/126; D14/113, 248/922

US-CL-CURRENT: 345/659; 248/922

FIELD-OF-SEARCH: 340/720, 340/727, 345/126, 345/905, 248/920, 248/922, 248/923, 248/917, 248/919, 248/921, D14/106, D14/113

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected**Search ALL****Clear**

PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

D321179

October 1991

Oyama

D14/113

<input type="checkbox"/>	<u>D343168</u>	January 1994	Morisaki et al.	D14/106
<input type="checkbox"/>	<u>4267555</u>	May 1981	Boyd et al.	340/748
<input type="checkbox"/>	<u>4542377</u>	September 1985	Hagen et al.	340/727
<input type="checkbox"/>	<u>4831368</u>	May 1989	Masimo et al.	340/727
<input type="checkbox"/>	<u>5034733</u>	July 1991	Okazawa et al.	345/126
<input type="checkbox"/>	<u>5134390</u>	July 1992	Kishimoto et al.	345/126

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0351817	January 1990	EP	340/727
59-62891	April 1984	JP	340/727
62-173509	July 1987	JP	
91/00586	January 1991	WO	

OTHER PUBLICATIONS

IBM Technical Disclosure Bulletin vol. 24 No. 1 A Jun. 1981 pp. 186 and 187.

ART-UNIT: 265

PRIMARY-EXAMINER: Brier; Jeffery

ATTY-AGENT-FIRM: Nixon & Vanderhye

ABSTRACT:

A data processor with rotatable display includes a display unit having a rectangular display surface rotatable to either a vertically elongated position or a laterally elongated position, and a control unit for setting an onscreen display format presented by the display unit to either a vertically elongated format or a laterally elongated format. The control unit stores the onscreen display format displayed at the time the data processor is turned off. Then when the data processor is later turned on, the stored onscreen display format is used.

5 Claims, 17 Drawing figures

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L11: Entry 105 of 185

File: USPT

Jul 22, 1997

US-PAT-NO: 5650217

DOCUMENT-IDENTIFIER: US 5650217 A

TITLE: Tactile image enhancer

DATE-ISSUED: July 22, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Skrivanek; David A.	Northvale	NJ		
Zuckerman; Joseph L.	Livingston	NJ		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Repro-Tronics, Inc.	Westwood	NJ			02

APPL-NO: 08/ 544733 [\[PALM\]](#)

DATE FILED: October 18, 1995

PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATION This is a CIP of Ser. No. 08/213,252, filed Mar. 15, 1994 and now abandoned .

INT-CL: [06] [B32](#) [B](#) [3/00](#)

US-CL-ISSUED: 428/195; 428/174, 428/206, 428/402, 428/411.1, 428/913, 442/74, 442/103

US-CL-CURRENT: [428/195.1](#); [428/174](#), [428/206](#), [428/402](#), [428/411.1](#), [428/913](#), [442/103](#), [442/74](#)

FIELD-OF-SEARCH: 156/86, 156/161, 428/195, 428/206, 428/240, 428/402, 428/174, 428/913, 428/411.1, 503/226

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	5125996	June 1992	Campbell et al.	156/196
<input type="checkbox"/>	5281408	January 1994	Unger	424/9.4
<input type="checkbox"/>	5325781	July 1994	Dupont et al.	101/487

ART-UNIT: 137

PRIMARY-EXAMINER: Krynski; William

ATTY-AGENT-FIRM: Notaro & Michalos P.C.

ABSTRACT:

A sheet material is capable of converting a two dimensional image which may be of interest to a visually handicapped individual, into a three dimensional raised image that can be perceived by the visually handicapped individual using the individual's tactile sense. The method, apparatus and material uses a sheet-like substrate which is coated throughout its entire area by an expandable composition. A two dimensional, initially flat, image can be drawn, imprinted or otherwise placed on the substrate using a dark, dense color which is preferably black. The black color of the image absorbs energy to a greater extent than the surrounding substrate so that when the substrate is irradiated, for example, using an infrared lamp in an enclosure through which the sheet of material passes, the image becomes puffed and raised. The visually handicapped individual can then touch the surface of the substrate and easily perceive the raised image. This opens an entire new class of images to the visually handicapped individual since using the invention, a wide variety of mechanisms can be used to place black images onto the substrate of the invention, and then the substrate is heated using the apparatus of the invention to raise the image and allow the handicapped individual to "view" in the tactile sense, art work, architecture, musical notes, maps, sketches, images and any other class of shapes which are normally perceivable only by a sighted individual.

7 Claims, 7 Drawing figures

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L11: Entry 106 of 185

File: USPT

Apr 1, 1997

US-PAT-NO: 5616901

DOCUMENT-IDENTIFIER: US 5616901 A

**** See image for Certificate of Correction ****TITLE: Accessible automatic teller machines for sight-impaired persons and print-disabled persons

DATE-ISSUED: April 1, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Crandall; William	San Francisco	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Talking Signs, Inc.	Baton Rouge	LA			02

APPL-NO: 08/ 574555 [PALM]

DATE FILED: December 19, 1995

INT-CL: [06] G06 F 17/60, G09 B 21/00

US-CL-ISSUED: 235/379; 434/112

US-CL-CURRENT: 235/379; 434/112

FIELD-OF-SEARCH: 235/379, 235/380, 235/362, 235/381, 340/407, 340/825.49, 902/10, 902/20, 902/25, 434/112, 434/113, 404/42, 404/10

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4253083</u>	February 1981	Imamura	340/44
<input type="checkbox"/>	<u>4660022</u>	April 1987	Osaka	340/407
<input type="checkbox"/>	<u>5032836</u>	July 1991	Ono et al.	340/825.71
<input type="checkbox"/>	<u>5144294</u>	September 1992	Alonzi et al.	340/825.49
<input type="checkbox"/>	<u>5241307</u>	August 1993	Bidault et al.	340/944
<input type="checkbox"/>	<u>5284444</u>	February 1994	Raynes	434/113
<input type="checkbox"/>	<u>5417574</u>	May 1995	Raynes	434/112

☐ 5487669 January 1996 Kelk 434/112

ART-UNIT: 254

PRIMARY-EXAMINER: Hajec; Donald T.

ASSISTANT-EXAMINER: Le; Thien Minh

ATTY-AGENT-FIRM: Sieberth; John F.

ABSTRACT:

Systems which comprise (a) an automatic teller machine which includes a plurality of customer interfaces such as a bank card reader, a banking record dispenser, a cash dispenser, and a receptacle for receiving bank deposits; (b) infrared remote communication emitters and (c) individual short range infrared communication emitters located in the teller machine. The emitters (b) are adapted to provide repeating, directionally sensitive frequency modulated message signals identifying the direction to and location of the teller machine. Thus a person having a portable receiver for such signals is led to the machine and is enabled to position himself/herself in front of the machine in order to operate it. The respective emitters of (c) provide a separate repeating, directionally sensitive frequency modulated message signal which at least identifies the location of the respective customer interfaces on the teller machine so that by movement of the portable receiver in front of the machine, the location on the teller machine of the respective customer interfaces can be determined. Feedback concerning the transactions can also be provided from the system to the customer through the portable receiver.

13 Claims, 2 Drawing figures

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L11: Entry 110 of 185

File: USPT

Dec 3, 1996

US-PAT-NO: 5580251

DOCUMENT-IDENTIFIER: US 5580251 A

**** See image for Certificate of Correction ****

TITLE: Electronic refreshable tactile display for Braille text and graphics

DATE-ISSUED: December 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gilkes; Alan M.	Plano	TX		
Cowens; Marvin W.	Plano	TX		
Taylor; Larry A.	North Richland Hills	TX		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Texas Instruments Incorporated	Dallas	TX			02

APPL-NO: 08/ 509946 [\[PALM\]](#)

DATE FILED: August 1, 1995

PARENT-CASE:

This application is a Continuation of application Ser. No. 08/286,108, filed Aug. 4, 1994, now abandoned, which is a Continuation of application Ser. No. 08/095,634, filed Jul. 21, 1993, now abandoned.

INT-CL: [06] [G09 B 21/00](#)

US-CL-ISSUED: 434/113; 434/112, 340/407.1

US-CL-CURRENT: [434/113](#); [340/407.1](#), [434/112](#)

FIELD-OF-SEARCH: 434/112, 434/113, 434/114, 434/115, 340/407.1, 340/825.14, 252/71, 252/73, 252/74, 252/75, 40/406, 40/407

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	4266936	May 1981	Rose et al.	
<input type="checkbox"/>	5222895	June 1993	Fricke	340/407

OTHER PUBLICATIONS

Intelligent Gels, Yoshihito Osada, et al. Scientific American, May 1993, pp. 82-87.
Gels, Toyochi Tanaka, Scientific American, 1991, pp. 124-138.

ART-UNIT: 268

PRIMARY-EXAMINER: Kuntz; Curtis

ASSISTANT-EXAMINER: Chang; Vivian W.

ATTY-AGENT-FIRM: DeLeon; Ruben C. Kesterson; James C. Donaldson; Richard L.

ABSTRACT:

This is a Braille display device which comprises: a plurality of cavities; and circuitry to individually excite the plurality of cavities. The plurality of cavities contain a positive and a negative electrode 18, 22, 26 and are filled with a quantity of polar organic gel 24 sensitive to electric fields. The cavities are sealed by an elastomeric film 14. The elastomeric film is held generally flat, by its own tension, in the absence of any voltage applied to the electrodes 18, 22, 26 in the plurality of cavities. The display device can also include circuitry to determine whether the cavity has been touched by person who is reading the display. The display device can also include circuitry to individually vibrate each cavity. Other devices, systems and methods are also disclosed.

11 Claims, 6 Drawing figures

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L16: Entry 1 of 1

File: USPT

Nov 16, 1999

US-PAT-NO: 5986634

DOCUMENT-IDENTIFIER: US 5986634 A

**** See image for Certificate of Correction ****

TITLE: Display/monitor with orientation dependent rotatable image

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alioshin; Paul A.	San Francisco	CA		
Corbin; Dave B.	Los Altos Hills	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Silicon Light Machines	Sunnyvale	CA			02

APPL-NO: 08/ 763523 [PALM]

DATE FILED: December 11, 1996

INT-CL: [06] G09 G 5/34

US-CL-ISSUED: 345/126; 361/681, 353/122

US-CL-CURRENT: 345/649; 345/168, 345/173, 345/207, 345/659, 353/122, 361/681

FIELD-OF-SEARCH: 345/126, 345/169, 345/108, 345/157, 345/901, 345/905, 345/8, 382/296-297, 353/122, 400/472, 361/681, 361/695, 361/785

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4443819</u>	April 1984	Funada et al.	358/236
<input type="checkbox"/>	<u>4561044</u>	December 1985	Ogura et al.	362/84
<input type="checkbox"/>	<u>4646158</u>	February 1987	Ohno et al.	358/236
<input type="checkbox"/>	<u>4652932</u>	March 1987	Miyajima et al.	358/236
<input type="checkbox"/>	<u>4663670</u>	May 1987	Ito et al.	358/245
<input type="checkbox"/>	<u>4803560</u>	February 1989	Matsunaga et al.	358/236

<input type="checkbox"/>	<u>4809078</u>	February 1989	Yabe et al.	358/236
<input type="checkbox"/>	<u>4814759</u>	March 1989	Gombrich et al.	340/771
<input type="checkbox"/>	<u>4952925</u>	August 1990	Haastert	340/784
<input type="checkbox"/>	<u>5119204</u>	June 1992	Hashimoto et al.	358/254
<input type="checkbox"/>	<u>5179367</u>	January 1993	Shimizu	340/700
<input type="checkbox"/>	<u>5189404</u>	February 1993	Masimo et al.	345/115
<input type="checkbox"/>	<u>5311360</u>	May 1994	Bloom et al.	
<input type="checkbox"/>	<u>5329289</u>	July 1994	Sakamoto et al.	345/126
<input type="checkbox"/>	<u>5359349</u>	October 1994	Jambor et al.	345/168
<input type="checkbox"/>	<u>5467106</u>	November 1995	Salomon	345/87
<input type="checkbox"/>	<u>5640216</u>	June 1997	Hasegawa et al.	349/58
<input type="checkbox"/>	<u>5707160</u>	January 1998	Bowen	400/472
<input type="checkbox"/>	<u>5713652</u>	February 1998	Zavracky et al.	353/122
<input type="checkbox"/>	<u>5757354</u>	May 1998	Kawamura	345/126
<input type="checkbox"/>	<u>5815126</u>	September 1998	Fan et al.	345/8

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 458 316 A2	November 1991	EP	

OTHER PUBLICATIONS

"Kitchen Computer", IBM Technical Disclosure Bulletin, vol. 37, No. 12, pp. 223-225, Dec. 1994.

"Image Orientation Sensing and Correction for Notepads", Research Disclosure, No. 34788, p. 217, Mar. 1993.

ART-UNIT: 274

PRIMARY-EXAMINER: Hjerpe; Richard A.

ASSISTANT-EXAMINER: Nguyen; Francis

ATTY-AGENT-FIRM: Haverstock & Owens LLP

ABSTRACT:

A display with orientation dependent rotatably image presents a properly oriented image in a first mounted fold-down position and a second up-right table-top position. The display folds up into a base unit when not being used for compact storage of the system. An orientation determining device is included for determining the current orientation of the display and properly orienting the image based on that current orientation. The orientation determining device is either a mechanically flipped switch, an automatic switch or an acceleration sensor. The display screen is preferably an LCD screen. Alternatively, the display screen is a light valve type display including a grating light valve system. The display is for use in a television system, computer system, video phone or browser. Infrared input

devices are used to control the display and provide data to the computer system. In an alternate embodiment, a touch sensitive screen is also used as an input device.

48 Claims, 8 Drawing figures

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L18: Entry 1 of 1

File: USPT

Oct 26, 1999

US-PAT-NO: 5971268

DOCUMENT-IDENTIFIER: US 5971268 A

TITLE: I/O assembly for use with point of sale terminals and other computing systems

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lynch; Robert Carlton	Cary	NC		
Myers; Kevin Henry	Durham	NC		
Smith; Ronald Alan	Apex	NC		
Talley; William Lewis	Raleigh	NC		
Veals; Edward Randolph	Pawleys Island	SC		

ASSIGNEE-INFORMATION:

Search Forms**Search Results**
IBM Business Machines Corporation

CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Armonk	NY				02

Help**User Searches**

APPL-NO: 08/ 944710 [PALM]

DATE FILED: October 6, 1997

Preferences**Logout**

PARENT-CASE:

This is a continuation of application Ser. No. 08/681,719; filed Jul. 29, 1996, now abandoned, which is a continuation of application Ser. No. 08/448,203; filed May 23, 1995, that is now U.S. Pat. No. 5,569,895, which is a CIP of Ser. No. 08/068,323, May 27, 1993 now abandoned.

INT-CL: [06] G07 G 1/00, F16 M 11/12

US-CL-ISSUED: 235/1R; 235/7R, 248/83.1, 248/923

US-CL-CURRENT: 235/1R; 235/7R, 248/83, 248/923

FIELD-OF-SEARCH: 235/1R, 235/7R, 248/183, 248/917, 248/919, 248/921, 248/923, 384/275, 384/295, 384/296

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>D313405</u>	January 1991	Barry et al.	D14/113
<input type="checkbox"/>	<u>4304385</u>	December 1981	Farouche et al.	248/410
<input type="checkbox"/>	<u>4437638</u>	March 1984	Scheibenpflug	248/282
<input type="checkbox"/>	<u>4589713</u>	May 1986	Pfuhl et al.	339/7
<input type="checkbox"/>	<u>4624585</u>	November 1986	Nix et al.	384/296
<input type="checkbox"/>	<u>4687167</u>	August 1987	Skalka et al.	248/282
<input type="checkbox"/>	<u>4708312</u>	November 1987	Rohr	248/283
<input type="checkbox"/>	<u>4738422</u>	April 1988	Metheson et al.	248/183
<input type="checkbox"/>	<u>4750878</u>	June 1988	Nix et al.	384/296
<input type="checkbox"/>	<u>4790504</u>	December 1988	Willis et al.	248/183
<input type="checkbox"/>	<u>4834329</u>	May 1989	Delapp	248/183
<input type="checkbox"/>	<u>4844387</u>	July 1989	Sorgi et al.	248/1
<input type="checkbox"/>	<u>4880191</u>	November 1989	Lake, Jr.	248/371
<input type="checkbox"/>	<u>5024415</u>	June 1991	Purens	248/523
<input type="checkbox"/>	<u>5113183</u>	May 1992	Mizuno et al.	340/825.31

ART-UNIT: 281

PRIMARY-EXAMINER: Lee; Eddie C.

ATTY-AGENT-FIRM: Cockburn; Joscelyn G.

ABSTRACT:

A computer Input/Output (I/O) assembly including a stand for supporting an I/O device, such as a display or the like. The stand includes a main support member and an auxiliary support member offset from the main support member. A mechanism providing swivel and rotational motions coupled the main support member to a base and another mechanism providing swivel, rotation, and tilt motions couples the auxiliary support member to the I/O device. The total rotational motion provided by the mechanisms is greater than 360.degree..

20 Claims, 8 Drawing figures

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